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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/001,643	10/31/2001	Bradley T. Hyman	19603/3541 (CRF D-2694A)	2817
75	90 10/06/2003		EXAMINER	
Michael L. Goldman NIXON PEABODY LLP			MANTIS MERCADER, ELENI M	
Clinton Square			ART UNIT	PAPER NUMBER
P.O. Box 31051			3737	
Rochester, NY	14603		DATE MAILED: 10/06/2003	5

Please find below and/or attached an Office communication concerning this application or proceeding.

			TB				
	Application No.	Applicant(s)					
	10/001,643	HYMAN ET AL					
Office Action Summary	Examiner	Art Unit					
	Eleni Mantis Mercader	3737					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status							
1) Responsive to communication(s) filed on 31 C	<u> Ctober 2001</u> .						
2a)☐ This action is <b>FINAL</b> . 2b)⊠ Thi	s action is non-final.						
3) Since this application is in condition for allowa closed in accordance with the practice under E Disposition of Claims			e merits is				
4) Claim(s) 1-34 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-34</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:	have been mestived						
1. Certified copies of the priority documents		om No					
2. Certified copies of the priority documents	• • • • • • • • • • • • • • • • • • • •		Ctoro.				
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
14)⊠ Acknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e	) (to a provisional	application).				
<ul> <li>a) ☐ The translation of the foreign language prov</li> <li>15)☐ Acknowledgment is made of a claim for domestic</li> </ul>	- ·						
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No( atent Application (PTC					
S. Patent and Trademark Office							

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gervais et al. '717 in view of Alfano et al. '386.

Gervais et al.'717 teach a method of detecting neurodegenerative diseases by detecting amyloid plaques or neurofibrillary tangles in a mammal by activating the tissue of interest, including the brain, in-vivo and by using optical imaging under conditions effective to promote a fluorescence characteristic in order to diagnose amyloidosis related diseases such as Alzheimer's in early stages (see paragraphs 9-12, 35 and 156; describing detecting fluorescence to optically image the brain in order to diagnose diseases such as Alzheimer's).

While Gervais et al. '717 do not explicitly teach comparing the fluorescence characteristic to a standard fluorescence emitted by exciting healthy brain tissue of the mammal under the same conditions used to carryout the activating, it is well within the knowledge of skilled artisans that there has to be some type of comparison to a standard in order to determine the significance of what is being identified in the image. In other words, if there is a luminous site in the image, either comparison with a normal image or some other type of normalization will be undertaken to ensure that what is being observed is of significance. Such image processing is described by

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Alfano et al.'386, in col. 6, lines 17-52, wherein subtraction between images and normalization is undertaken in order to obtain a better image and thereby allow diagnosis of disease.

Photo-activation by laser and pulsed radiation are well known imaging expedients to skilled artisans.

## Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Averback et al.'947 teach a method for detecting amyloid-containing lesions by autofluorescence.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eleni Mantis Mercader whose telephone number is 703 308-0899. The examiner can normally be reached on Mon. - Fri., 8:00 a.m.-6:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dennis Ruhl can be reached on 703 308-2262. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308-0858.

Haridladinlerader
Eleni Mantis Mercader

Patent Examiner
Art Unit 3737

EMM.